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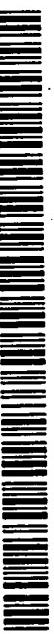
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(54) Title: COMPOUNDS AND METHODS FOR IDENTIFYING COMPOUNDS WHICH INHIBIT A NEW CLASS OF ASPARTYL PROTEASES

(57) Abstract: Compounds and methods for designing and identifying compounds which inhibit TFP-like aspartyl protease enzymes by targeting the aspartic acid residues of the active site or mimicking peptides corresponding to the region surrounding the substrate's cleavage site are provided. Agents identified as inhibitors of TFP-like aspartyl proteases such as type 4 prephilin peptidases are expected to be useful as anti-bacterial agents and in inhibiting development of drug resistant strains of bacteria.